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NOTICE OF ALLOWANCE AND FEE(S) DUE

24628 7590 12/14/2009 Husch Blackwell Sanders, LLP Husch Blackwell Sanders LLP Welsh & Katz 120 S RIVERSIDE PLAZA 22ND FLOOR

CHICAGO, IL 60606

EXAMINER				
BRANDT, CHRISTOPHER M				
ART UNIT	PAPER NUMBER			
2617				
DATE MAILED: 12/14/2	009			

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.		
10/764,963	01/26/2004	Shpak Eran	91366	9322		
TITLE OF INVENTION: WIRELESS LAN CONTROL OVER A WIRED NETWORK						

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	YES	\$755	\$300	\$0	\$1055	03/15/2010

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. <u>PROSECUTION ON THE MERITS IS CLOSED.</u> THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

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If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

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III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

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appropriate. All further indicated unless correcte maintenance fee notifical	correspondence includir ed below or directed oth	or transmitting the ig the Patent, advan- nerwise in Block 1,	ce orders and notification by (a) specifying a new	n of n	ON FEE (if require naintenance fees with pondence address;	ed). B II be i and/or	nailed to the current (b) indicating a sepa	nould be completed where correspondence address as trate "FEE ADDRESS" for
CURRENT CORRESPONDENCE ADDRESS (Note: Use Block 1 for any change of address)			Note: A certificate of mailing can only be used for domestic mailings of the Fee(s) Transmittal. This certificate cannot be used for any other accompanying papers. Each additional paper, such as an assignment or formal drawing, mus have its own certificate of mailing or transmission.					
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10/764,963 TITLE OF INVENTION	01/26/2004 : WIRELESS LAN CON	TROL OVER A W	Shpak Eran IRED NETWORK				91366	9322
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nonprovisional	YES	\$755	\$300		\$0	•	\$1055	03/15/2010
EXAM	INER	ART UNIT	CLASS-SUBCLAS	SS				
BRANDT, CHE	SISTOPHER M	2617	370-338000					
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(A) NAME OF ASSIG	ess an assignee is ident h in 37 CFR 3.11. Comp GNEE	ified below, no assi eletion of this form is	gnee data will appear on S NOT a substitute for fili (B) RESIDENCE:	the pang an	atent. If an assigner assignment. and STATE OR CO	OUNT	RY)	ocument has been filed for
4a. The following fee(s):	are submitted:		4b. Payment of Fee(s) A check is enclosed Payment by cree	(Plea	se first reapply any	prev	lously paid issue fee	
	s SMALL ENTITY state	is. See 37 CFR 1.27.					TTY status. Sec 37 Cl	
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Authorized Signature					Date			
Typed or printed name					Registration No			
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120 S RIVERSIDE PLAZA 22ND FLOOR		2617 DATE MAILED: 12/14/2009					

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 432 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 432 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

Application No. Applicant(s) 10/764 963 ERAN, SHPAK Notice of Allowability Examiner Art Unit CHRISTOPHER M. BRANDT 2617 -- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS. This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308. 1. This communication is responsive to applicant's arguments submitted on September 8, 2009. The allowed claim(s) is/are 1-21,23-48 and 50-54. 3. Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) \square All b) ☐ Some* c) ☐ None of the: 1. T Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)). * Certified copies not received: _____. Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application. THIS THREE-MONTH PERIOD IS NOT EXTENDABLE. A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient. CORRECTED DRAWINGS (as "replacement sheets") must be submitted. (a) Including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached 1) hereto or 2) to Paper No./Mail Date (b) including changes required by the attached Examiner's Amendment / Comment or in the Office action of Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d). 6. DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL. Attachment(s) 1. | Notice of References Cited (PTO-892) 5. Notice of Informal Patent Application 2. Notice of Draftperson's Patent Drawing Review (PTO-948) Interview Summary (PTO-413), Paper No./Mail Date Information Disclosure Statements (PTO/SB/08). T Examiner's Amendment/Comment Paper No./Mail Date 9/9/09 8. X Examiner's Statement of Reasons for Allowance 4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material

/Christopher M Brandt/

Examiner, Art Unit 2617

9. 🔲 Other _____.

Supervisory Patent Examiner, Art Unit 2617

/George Eng/

Application/Control Number: 10/764,963

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DETAILED ACTION

Information Disclosure Statement

The information disclosure statement submitted on September 9, 2009 has been considered by the examiner and placed of record in the application file.

Examiner's Statement of Reasons for Allowance

Claims 1-21, 23-48, and 50-54 are allowed.

The following is an examiner's statement of reasons for allowance:

Applicant's invention is drawn to a wireless local area network control over a wired network. More specifically, applicant has designed an apparatus, which includes a switch that has a plurality of ports for connection to a wired local area network. In addition, this apparatus includes a plurality of access points that are arranged in a wireless local area network (WLAN) to communicate over the air in accordance with a predefined WLAN protocol on a common frequency channel with a mobile station using a common basic service set identification (BSSID) for all the access points, and which are coupled by the LAN to the switch so that upon receiving at one or more of the access points an uplink packet transmitted over the WLAN by the mobile station on the common frequency channel. In addition, these access points convey messages responsively to the uplink packet over the LAN to the switch. Moreover, applicant's apparatus includes a manager node that is coupled to the switch so as to receive the messages and is adapted to process the messages so as to select one of the access points to respond to the uplink packet. This manager node also is designed to send an instruction via the switch to the selected one of the access points to transmit to the mobile station a response to the uplink packet within a time limit specified by the WLAN protocol. Lastly, the manager node is connected to first and

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second ports among the plurality of the ports of the switch, and is configured to receive uplink messages from the access points exclusively through the first port and to convey the uplink messages exclusively via the second port over the LAN to respective destination addresses of the message.

Applicant's independent claim 1 and 28 recites, inter alia, the manager node sends an instruction via the switch to the selected one of the access points to transmit to the mobile station a response to the uplink packet within a time limit specified by the WLAN protocol. As applicant has pointed out, Melpignano actually teaches away from this time limit because Melpignano discloses that a time limit for response should be intentionally allowed to expire (paragraph 19). Also, Mangold does not teach this feature as Mangold discloses that the access point transmits control frames for time sharing (paragraphs 11, 12). As the claimed invention indicates, the mobile station is transmitting the message (i.e. unlink packet). Therefore, the combination of references do not describe in detail applicant's claimed invention. As a result, the cited references and a thorough search did not disclose the operation of a plurality of access points using a manger node so that one selected access point will transmit a response to an uplink packet within a time limit specified by the WLAN protocol. In addition, it would not be obvious to one of ordinary skill in the art to invent such an apparatus and method without using impermissible hindsight and using applicant's claims and specification as a roadmap. Therefore, applicant's independent claims 1 and 28 comprise a particular combination of elements, which is neither taught nor suggested by the prior art.

Applicant's independent claim 19 and 46 recites, *inter alia*, the manager node is connected to first and second ports among the plurality of the ports of the switch, and is Application/Control Number: 10/764,963

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configured to receive uplink messages from the access points exclusively through the first port and to convey the uplink messages exclusively via the second port over the LAN to respective destination addresses of the message. Fox teaches an MxN switch, which is comprised of a plurality of discrete devices having different addresses and is operable to connect to any of the M input ports (i.e. read as uplink, since Fox teaches a microwave system coupled to switches) and to any of the N output ports (i.e. read as downlink, since Fox teaches a microwave system coupled to switches) (column 2 lines 10-30, column 3 lines 28-42). However, Fox does not teach the configuration to receive uplink messages from the access points exclusively through the first port and to convey the uplink messages exclusively via the second port over the LAN to respective destination addresses of the message. As a result, the cited references and a thorough search did not disclose in detail applicant's claimed invention. Lastly, as with claims 1 and 28, it would not be obvious to one of ordinary skill in the art to invent such an apparatus and method without using impermissible hindsight and using applicant's claims and specification as a roadmap. Therefore, applicant's independent claims 19 and 46 comprise a particular combination of elements, which is neither taught nor suggested by the prior art.

Accordingly, applicant's invention is allowed for these reasons and the reasons by applicant in amendments, arguments, and the appeal brief.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance"

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Conclusion

Any response to this Office Action should be faxed to (571) 273-8300 or mailed to:

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P.O. Box 1450

Alexandria, VA 22313-1450

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Randolph Building

401 Dulany Street

Alexandria, VA 22314

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Christopher M. Brandt whose telephone number is (571) 270-1098. The examiner can normally be reached on 7:30a.m. to 5p.m..

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, George Eng can be reached on (571) 272-7495. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent

Application Information Retrieval (PAIR) system. Status information for published applications

may be obtained from either Private PAIR or Public PAIR. Status information for unpublished

applications is available through Private PAIR only. For more information about the PAIR

system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR

system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would

like assistance from a USPTO Customer Service Representative or access to the automated

information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Any inquiry of a general nature or relating to the status of this application or proceeding

should be directed to the receptionist/customer service whose telephone number is (571) 272-

2600.

/Christopher M Brandt/ Examiner, Art Unit 2617

December 2, 2009

/George Eng/

Supervisory Patent Examiner, Art Unit 2617